

be measured by each unit. Excavation in solid rock will be measured by the cubic meter [cubic yard] determined from the actual depth of the hole and a hypothetical circle diameter of 600 mm [2 ft].

623.05 Basis of Payment The accepted quantities of monuments and markers will be paid for at the contract unit price each complete in place. Payment for placement of monuments in solid rock shall be considered included in the contract unit bid price except that actual excavation into solid rock will be paid for under Pay Item 206.07 - Structural Rock Excavation, Drainage and Minor Structures.

Payment will be made under:

<u>Pay Item</u>	<u>Pay Unit</u>
623.06 Right-of-Way Monument	Each
623.07 Survey Monument	Each
623.08 Bronze Pin Marker	Each
623.09 Remove and Reset Monument	Each

SECTION 624 - VACANT

SECTION 625 - WATER SERVICE SUPPLY LINES

625.01 Description This work shall consist of installing water pipe and pipe sleeve in reasonably close conformity with the lines and grades shown on the plans or established. The installation shall include the assembly of all components and materials shown on the plans or as directed.

625.02 Materials Materials shall meet the requirements specified in the following Sections of Division 700 - Materials:

Copper Tubing	712.32
Non-metallic Pipe, Flexible	712.33
Non-metallic Pipe, Rigid	712.34
Metallic Pipe	712.341

625.03 General This work shall be done with as little interruption of water service as possible. Ample notification shall be given to the users of the water before any disruption of water service.

625.04 Sleeve Pipe for sleeves shall be metallic or non-metallic rigid and be laid on a firm foundation at the line and grade designated. When the pipe installation is in a trench all excavating and backfilling shall be in accordance with Section 206 - Structural Excavation.

After installation of the pipe, special care shall be taken to protect the pipe from heavy hauling equipment loads, rocks or any other damage caused by the Contractor's work. All pipe broken from such causes shall be removed and replaced at the Contractor's expense.

Pipe sleeves to be placed in concrete shall be supported during placement of concrete. Special care shall be taken while placing and compacting concrete around the sleeves to prevent voids around the outside of the sleeves. Ends of the sleeves shall be capped with end plates until the water pipes are installed through the sleeves.

625.05 Water Pipe Water pipe shall be copper tubing or non-metallic flexible pipe, as called for. After the sleeve has been placed, the water pipe shall be inserted into the sleeve and connected to the existing pipes at each end. All connections to existing pipes shall be done in accordance with recognized plumbing practices.

Necessary fittings, adapters, and reducers shall be furnished as required.

625.06 Method of Measurement Pipe sleeve, copper tubing, and non-metallic pipe will be measured by the meter [linear foot].

625.07 Basis of Payment The accepted quantities of pipe sleeve, copper tubing and non-metallic pipe will be paid for at the contract unit price per meter [linear foot] for the types and sizes specified complete in place, which payment will be compensation for furnishing and installing all necessary fittings, for connecting to existing systems and for capping the ends of the pipe sleeve.

Excavation will not be paid for separately but will be considered included in the work

of the contract items.

Payment will be made under:

<u>Pay Item</u>	<u>Pay Unit</u>
625.081 19 mm (¾ in) Copper Tubing Foot]	meter [Linear
625.082 25 mm (1 in) Copper Tubing Foot]	meter [Linear
625.083 32 mm (1¼ in) Copper Tubing Foot]	meter [Linear
625.084 38 mm (1½ in) Copper Tubing Foot]	meter [Linear
625.085 44 mm (1¾ in) Copper Tubing Foot]	meter [Linear
625.086 50 mm (2 in) Copper Tubing Foot]	meter [Linear
625.101 19 mm (¾ in) Non-metallic Pipe-Flexible Foot]	meter [Linear
625.102 25 mm (1 in) Non-metallic Pipe-Flexible Foot]	meter [Linear
625.103 32 mm (1¼ in) Non-metallic Pipe-Flexible Foot]	meter [Linear
625.104 38 mm (1½ in) Non-metallic Pipe-Flexible Foot]	meter [Linear
625.105 44 mm (1¾ in) Non-metallic Pipe-Flexible Foot]	meter [Linear
625.141 50 mm (2 in) Pipe Sleeve Foot]	meter [Linear
625.142 75 mm (3 in) Pipe Sleeve Foot]	meter [Linear
625.143 100 mm (4 in) Pipe Sleeve Foot]	meter [Linear
625.144 150 mm (6 in) Pipe Sleeve Foot]	meter [Linear
625.145 200 mm (8 in) Pipe Sleeve	meter [Linear

Foot]

SECTION 626 - FOUNDATIONS, CONDUIT, AND JUNCTION BOXES FOR HIGHWAY SIGNING, LIGHTING, AND SIGNALS

626.01 Description This work shall consist of furnishing, installing, modifying, or removing concrete foundations, conduits, and junction boxes for highway lighting, highway signing, and traffic signal installations in accordance with these specifications and in reasonably close conformity with the plans.

626.02 General The materials furnished by the Contractor shall be new. Where an existing system is to be modified, the existing material shall be removed and abandoned or salvaged as shown on the plans or as directed.

All electrical equipment shall conform to NEMA or UL standards, wherever applicable. In addition to these requirements, all materials and workmanship shall conform to the requirements of: NEC, ASTM Standards, the ANSI, the local electrical Utility Company, and any local ordinances that may apply.

Materials shall meet the requirements specified in the following Sections of Division 700, Material Details.

Reinforcing Steel	709.01
Precast Concrete Units	712.06
Steel Conduit	715.02
Non-metallic Conduit	715.03
Prewired Conduit	715.04
Metallic Junction and Fuse Box	715.05
Anchor Bolts	720.07

626.021 Miscellaneous Material Gravel backfill shall meet the requirements for Aggregate Base-Screened, Section 703.06 a., Type A.

Transformer pads shall conform to the requirements of the local electrical Utility Company.